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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/912,628	07/26/2001	Jian Ni	PT001P2	5463
22195 7	590 02/14/2003			
HUMAN GENOME SCIENCES INC			EXAMINER	
9410 KEY WE ROCKVILLE,			HAMUD, I	FOZIA M
			ART UNIT	PAPER NUMBER
			1647	
			DATE MAILED: 02/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. 09/912,628

Applicant(s)

NI et al.

Examiner

Fozia Hamud

Art Unit, **1647**

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	The MAILING DATE of this communication appears on the cover sheet with the correspondence address			
	or Reply			
THE N	ORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM MAILING DATE OF THIS COMMUNICATION. cons of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the			
If the pIf NO pFailureAny re	date of this communication. eriod for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. eriod for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). by received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any patent term adjustment. See 37 CFR 1.704(b).			
Status				
1) 💢	Responsive to communication(s) filed on Nov 30, 2001			
2a) 🗌	This action is FINAL . 2b) 💢 This action is non-final.			
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.			
Disposit	ion of Claims			
4) 💢	Claim(s) 1-22 is/are pending in the application.			
4	a) Of the above, claim(s) is/are withdrawn from consideration.			
5) 🗆	Claim(s) is/are allowed.			
	Claim(s) is/are rejected.			
	Claim(s) is/are objected to.			
	Claims <u>1-22</u> are subject to restriction and/or election requirement.			
	tion Papers			
9) 🗌	The specification is objected to by the Examiner.			
10) 🗌	The drawing(s) filed on is/are a) accepted or b) objected to by the Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.			
	If approved, corrected drawings are required in reply to this Office action.			
12)	The oath or declaration is objected to by the Examiner.			
Priority	under 35 U.S.C. §§ 119 and 120			
13) 🗌	Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)	All b)□ Some* c)□ None of:			
1	. Certified copies of the priority documents have been received.			
2	2. Certified copies of the priority documents have been received in Application No			
	B. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).			
	e the attached detailed Office action for a list of the certified copies not received.			
	Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).			
	The translation of the foreign language provisional application has been received.			
	Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
Attachme				
	ice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) ice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)			
	3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)			
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DETAILED ACTION

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-10, 14-15 drawn to an isolated nucleic acid molecule comprising a polynucleotide sequence X, a vector comprising said nucleic acid, a host cell comprising said nucleic acid molecule and a method of producing a polypeptide, classified in class 435, subclass 69.1.
 - II. Claims 11-12, 16, drawn to an isolated polypeptide comprising an amino acid sequence as shown in SEQ ID NO:Y, classified in class 530, subclass 350.
 - III. Claim 13 drawn to an antibody which selectively binds to a polypeptide, classified in class 530, subclass 389.1.
 - IV. Claim 17 drawn to a method for preventing, treating or ameliorating a medical condition by administering an effective amount of polynucleotide, class 514, subclass 44.
 - V. Claim 22 drawn to a method for preventing, treating or ameliorating a medical condition by administering an effective amount of polypeptide, class 514, subclass
 2.
 - VI. Claim 18, drawn to a method of diagnosing a pathological condition by determining the presence or absence of a mutation in a polynucleotide, classified in class 435, subclass 6.

VII. Claim 19, drawn to a method of diagnosing a pathological condition by determining the presence or absence or expression of a polypeptide, classified in class 435, subclass 7.1.

VIII. Claims 20-21, drawn to a method to screen for compounds that modify a polypeptide, classified in class 435, subclass 7.2.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-III are independent and distinct, each from the other, because they are products which possess characteristic differences in structure and function and each has an independent utility, that is distinct for each invention which cannot be exchanged. The nucleic acid of Group I can be used to make a hybridization probe or can be used in gene therapy as well as in the production of the protein of interest. The protein of Group II can be used other than to make the antibody of Group III, such as used as a probe, or used therapeutically or diagnostically (e.g. in screening). Although the antibody of Group III can be used to obtain the nucleic acid of Group I, it can also be used in diagnostics (e.g. as a probe in immunoassays, or in immunochromatography) or it may be used therapeutically.

Since the invention of Group I includes a method of using the polynucleotide to make the polypeptide of group II, inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the

polypeptide of Group II can be prepared by materially different processes, such as by chemical synthesis, or obtained from nature using various isolation and purification protocols.

Inventions I and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the nucleic acid as claimed can be used in the production of the encoded protein.

Inventions I and VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the nucleic acid as claimed can be used as a hybridization probe for diagnostic uses or in the production of the encoded protein.

Inventions II and V are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the polypeptide as claimed can be used diagnostically or can be used to make antibodies.

Inventions II and VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed

can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the polypeptide as claimed can be used therapeutically or can be used to make antibodies.

Inventions II and VIII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (M.P.E.P. § 806.05(h)). In the instant case the polypeptide as claimed can be used therapeutically or can be used to make antibodies.

Inventions I and III are unrelated to invention V, VII, VIII. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together, or they have different modes of operation, or they have different functions, or they have different effects. (MPEP § 806.04, MPEP § 808.01). In the instant case neither the nucleic acid of group I nor the antibody of Group III, are used nor produced in any of the methods of groups V, VII, VIII.

Inventions II, III and IV, VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together, or they have different modes of operation, or they have different functions, or they have different effects. (MPEP § 806.04, MPEP § 808.01). In the instant case neither the protein of Group II nor the antibody of Group III, is used or produced in any of the methods of Groups IV, VI.

Inventions IV-VIII are independent and distinct, each from the other, because the methods are practiced with materially different process steps for materially different purposes and each

method requires a non-coextensive search because of different starting materials, process steps and goals.

Having shown that these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter as defined by MPEP § 808.02, the Examiner has prima facie shown a serious burden of search (see MPEP § 803). Therefore, an initial requirement of restriction for examination purposes as indicated is proper.

Additional Restriction Requirement

The claims of Group I, recite an isolated nucleic acid molecule comprising a polynucleotide 2. sequence X, table 1 on page 18 of the instant specification describes SEQ ID NO:X as corresponding to SEQ ID NO:2, 3 or 4. Claims in Group II recite a polypeptide comprising an amino acid sequence as shown in SEQ ID NO:Y, table 1 describes SEQ ID NO:Y as corresponding to SEQ ID NO:5, 6 or 7. This constitutes a recitation of an implied, mis-joined Markush group that contain multiple, independent and distinct inventions. Each of the nucleic acids and polypeptides are independent and distinct because no common structural or functional properties are shared. Accordingly, these claims are subject to restriction under 35 U.S.C. 121.

Upon election of one of Groups I or II, Applicant is additionally required to elect a single polypeptide or polynucleotide sequence. This requirement is not to be considered as a requirement of an election of species, since each of the compounds recited in alternative from is not a member of a single genus of invention, but constitutes an independent and patentably distinct invention.

3. Applicant is advised that the response to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently

named inventors is no longer an inventor of at least one claim remaining in the application. Any

amendment of inventorship must be accompanied by a diligently-filed petition under 37 CFR 1.48(b)

and by the fee required under 37 CFR 1.17(h).

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fozia Hamud whose telephone number is (703) 308-8891. The examiner can normally be reached on Monday-Thursdays from 8:00AM to 4:30PM (Eastern time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Kunz, can be reached on (703) 308-4623.

Official papers filed by fax should be directed to (703) 308-4227. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Fozia Hamud Patent Examiner Art Unit 1647 10 February 2003

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